



## North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor  
Dee Freeman, Secretary

January 7, 2010

Sent Via U.S. Mail and Email - sgarrison@madisoncountync.org

Mr. Steve Garrison  
Madison County Manager  
P.O. Box 579  
Marshall, NC 28753

Re: Tetrachloroethene (PCE) Exceedance Beyond the Facility Compliance Boundary  
*Your letter of November 23, 2009 addressed to Mr. Garrison re: PCE*  
Madison County Landfill, Permit # 58-02

Dear Mr. Garrison:

The Solid Waste Section has reviewed the response letter "*Your letter of November 23, 2009 addressed to Mr. Garrison re: PCE*" dated December 22, 2009 submitted by the Leake, Scott, & Stokes Law Office. The response letter includes a scope of work to determine the source of the Appendix I volatile organic compound, Tetrachloroethene (PCE), in a residential water supply well called DW-02-Edwards near and potentially downgradient of the closed and unlined Madison County Landfill, Permit #58-02. Madison County has retained Altamont Environmental, Inc. to conduct the proposed scope of work.

The proposed scope of work within the response letter includes the following:

1. Investigate soil and shallow groundwater on Diane and Joel Edwards' property using a direct-push sampling rig and analyze for volatile organic compounds by Method 8260;
2. Collect a sample of surface water/shallow groundwater entering the well from below the surface casing and analyze for volatile organic compounds by Method 8260;
3. Collect a sample of wood mulch adjacent to the wellhead and analyze for volatile organic compounds by Method 8260; and
4. Collection of strike-and-dip measurements from rock outcropping in the vicinity of the Edwards' property and the closed Madison County Landfill.

As a result, the proposed scope of work within the response letter "*Your letter of November 23, 2009 addressed to Mr. Garrison re: PCE*" is approved as described. Please begin implementing the approved scope of work within 10 days of receipt of this letter. Once all elements of the approved scope of work have been completed, please submit a summary report of the findings to the Solid Waste Section within 30 days.

In addition, the Solid Waste Section received the laboratory analytical results on January 4, 2010 via email from the Madison County Health Department for the December 9, 2009 sampling event which indicated a North Carolina 2L Standard exceedance for PCE at 1.5 micrograms per liter (ug/L). PCE has a North Carolina 2L Standard of 0.7 ug/L. As a result, the laboratory analytical data has been forwarded to Dr. Kenneth Rudo, a Toxicologist for the State of North Carolina, for his second health risk evaluation.

Finally, the October 26, 2009 Notice of Violation (NOV) issued by the Division of Water Quality's Aquifer Protection Section requires the DW-02-Edwards well to be abandoned. The October 26, 2009 NOV also states that an alternate water source must be connected prior to any abandonment activities. It is imperative from a human health standpoint that an alternate water connection be supplied to the Edwards' home as soon as possible. Please advise the Solid Waste Section to the status of the alternate water connection. Also, have Diane and Joel Edwards been informed of the December 9, 2009 laboratory analytical results? If so, please submit a copy of the correspondence to the Solid Waste Section.

Please contact me if you have any questions regarding this letter at 919-508-8500 or by email at [jaclynne.drummond@ncdenr.gov](mailto:jaclynne.drummond@ncdenr.gov). Thank you for your continued cooperation with this matter.

Sincerely,



Jaclynne Drummond  
Hydrogeologist  
Environmental Compliance  
Solid Waste Section

cc via certified mail:  
(7008 0150 0000 3068 3544)

Diane and Joel Edwards

cc via email:

Jim Huff, Madison County Solid Waste Director  
Douglas McVey, Madison County Health Department  
Landon Davidson, Aquifer Protection  
Joel Lenk, Altamont Environmental, Inc.  
Alec McBeth, Altamont Environmental, Inc.  
Mark Poindexter, Field Operations Supervisor  
Deb Aja, Western District Supervisor  
Andrea Keller, Environmental Senior Specialist